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One can give a strong sense to the idea that a relational property does not "reduce" to non-relational properties by saying that a relational property does not supervene upon the non-relational properties of its relata. That there are such inherently relational properties I call the doctrine of relational holism, a doctrine which seems to conflict with traditional ideas about physicalism. At least parts of classical physics seem to be free of relational holism, but quantum mechanics, on at least some interpretations, incorporates the doctrine in an all pervasive way.

Michael Redhead

Two candidates for ineliminably relational properties in quantum mechanics are proposed. One is based on the van Fraassen idea of 'split' observables. The other is concerned with the violation of Jarrett's Completeness Condition for stochastic hidden variable theories. The contrast with nonlocality in the sense of action-at-a-distance between individuals is emphasized.

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